

Table of contents

Tuesday 01 October 2013	1
Wednesday 02 October 2013	3
Thursday 03 October 2013	4
Friday 04 October 2013	5

Low Level RF Workshop 2013

Tuesday 01 October 2013

Session1: Lab Status/Activities/Highlights - (08:35-10:19)

time	title	presenter
08:35	KEK Lab Talk : KEK LLRF SYSTEMS	MIURA, Takako
08:52	Status of LLRF technology at SPring-8	OTAKE, Yuji
09:09	JLAB LLRF activities	PLAWSKI, Tomasz
09:21	Toward the next generation: LLRF activities in LBNL	HUANG, Gang
09:33	LLRF Status and Future Projects at Fermilab	CHASE, Brian E.
09:50	ORNL Lab Talk: Operational Experience with the SNS Low Level RF Systems	CROFFORD, Mark
10:02	Cern Highlights 2011-2013 (Lab Talk)	HOFLE, Wolfgang

Session 2: Lab Status/Activities/Highlights - (10:40-11:48)

time	title	presenter
10:40	Overview on the LLRF and MicroTCA developments at DESY	SCHLARB, Holger
11:02	BNL Lab Talk: Recent Applications and Performance of the RHIC LLRF Platform Across the Collider-Accelerator Complex	SMITH, Kevin
11:19	Overview of the LLRF Activities at SLAC	HONG, Bo
11:31	The SwissFEL LLRF system - concept and realization	KALT, Roger

Session 3: Systems - (12:00-12:30)

time	title	presenter
12:00	Progress in Low Level RF System at FLASH Facility	AYVAZYAN, Valeri

Session 4 Systems - (14:00-15:35)

time	title	presenter
14:00	Update on XFEL LLRF system development and production	BRANLARD, Julien
14:25	Recent Progress of LLRF System for SACLA	OTAKE, Yuji
14:50	LLRF system for the HIE-Isolde	VALUCH, Daniel
15:15	Crab Cavity system for the LHC high-luminosity upgrade. Proposed LLRF	BAUDRENGHIEN, Philippe

DSP Tutorial I: Basic Theory - Presenter Tim Berenc, ANL - (16:10-16:55)

- Conveners: Berenc, Tim

Session - Other - (16:55-17:55)

time	title	presenter
16:55	Standardization of EPICS Device Support for data acquisition	SIMROCK, Stefan
17:20	LLRF Using SoC FPGAs in a Multiple Development Tool Environment	VARGHESE, Philip

Wednesday 02 October 2013

Session 1: Hardware - (09:20-10:20)

time	title	presenter
09:20	A Leading-Edge Hardware Family for LLRF and Diagnostics in CERN's Synchrotrons	MOLENDIJK, John
09:45	RF Backplane for MTCA.4 Based LLRF Control System	CZUBA, Krzysztof

DSP Tutorial II: Real-life Implementation - (10:40-11:25)

time	title	presenter
10:40	DSP Tutorial II : Real-life implementation in FPGAs	NARAYAN, Geetha

Session 2: Hardware - (11:25-12:15)

time	title	presenter
11:25	MTCA.4 Fast Digitizer	BOU HABIB, Samer
11:55	Standardization of ITER Instrumentation and Controls based on Hardware Catalogs	SIMROCK, Stefan

Thursday 03 October 2013

Industry Talk, "Realizing the Potential of High-Performance Data Converters," Tom Linnebrink - (08:35-09:20)

time	title	presenter
08:35	Realizing the Potential of High-Performance Data Converters	LINNENBRINK, Tom

Session 1: Operations - (09:20-10:20)

time	title	presenter
09:20	A LLRF implementation to Extend the Present LHC RF System to High-Lumi Beam Currents	MASTORIDIS, Themistoklis
09:50	Cavity autorecovery with beam	SALOM, Angela

Session 2: Operations - (11:25-12:15)

time	title	presenter
11:25	Multiharmonic beam loading compensation in the J-PARC synchrotrons	TAMURA, Fumihiko
11:50	Beam-Based Feedback for the European XFEL	PFEIFFER, Sven

Posters, Exhibitors - (14:00-18:00)

Friday 04 October 2013

DSP Tutorial Part IV: System Simulation From Design Through Commissioning, Stefan Simrock, ITER - (08:35-09:20)

time	title	presenter
08:35	DSP Tutorial IV: System Simulation From Design Through Commissioning	

Session 1: SRF & Piezo - (09:30-10:20)

time	title	presenter
09:30	Performance of CW superconducting cavity at ERL test facility	QIU, Feng
09:55	RF Operational Experience with High QL CW SRF Cavities	BACHIMANCHI, Ramakrishna

Session 2: SRF & Piezo - (10:40-12:00)

time	title	presenter
10:40	Development and Test of Digital LLRF Control Procedures and Techniques in Scope of ILC	OMET, Mathieu
11:05	Application of Active Disturbance Rejection Control in Superconducting Radio Frequency Cavities	ZHAO, Shen
11:30	Piezo characterization, tests and operation at FLASH	GRECKI, Mariusz

Session 3: Phase Calibration - (14:05-14:55)

time	title	presenter
14:05	Properties of a Distortion-Compensating Phase Calibration Processor	DOOLITTLE, Lawrence
14:30	XFEL MO and RF Phase Reference Distribution	CZUBA, Krzysztof